

49405314 : MAJOR : ENGINEERING MANAGEMENT

KEY WORD : REDUCTION MANAGEMENT OF LOSS PROBLEM

SOMSAKUN KHUJAROENSAP : IMPLEMENTATION MANUAL DESIGN FOR
REDUCTION MANGEMENT OF LOSS PROBLEM IN SAMPLE FACTORY.THESIS ADVISOR
: ASSOC.PROF.DR.ARNAT WATANASUNGSUIT, Ph.D. 88 pp.

Firstly, the information about the causes of waste during June to October 2007 was gathered by interviewing staff members of production process and quality control management subgroups and was mainly analyzed by the cause and effect diagram in order to the propose the problem solving approach by using design of experiment theory to determine the optimum condition for all of three quality management subgroups. Then,implementation results during November to December 2007 were economically analyzed by internal rate of return (IRR) and payback period.

The result indicated that waste reduction of the factory met the target with average IRR of the project of 69% per month and payback period of 0.29 months.In addition, implementation manual design for reduction management of loss problem in sample factory was proposed to factory management. Finally,the combination of quality control tools, design of experiment theory and engineering economy could help management to make a correct decision on the investment to solve the problems.

Department of Industrial Engineering and Management Graduate School, Silpakorn University Academic Year 2008

Student's signature

Thesis Advisor's signature